This last is reasonably close to the quantities arrived at, providing Told referred to the chambers at one end only.

The weight of the checker brick will be determined upon the basis of a temperature change of 100° C. (180° F.), 70 per cent of the brick being considered effective. The average specific heat of firebrick is about 0.25; its weight is about 1800 kg. per m^3 (112 Ib per cubic foot).

The regenerator computations are made as follows:

TABLE 15

	Gas Checker on Gas	Air Checker on Air	Gas Checker on Waste Gases	Air Checker on Waste Gases
Temp, top of checkerwork, C. . . .	1200°	1200°	1600°	1600°
F	2192°	2192°	2912°	2912°
Temp, bottom of checker, C. . . .	500°	300°	800°	600°
F	932°	572°	1472°	1112°
Temperature increase or decrease	850°	750°	1200°	1100°
F .. .	1562°	1382°	2192°	2012°
Heat capacity in calories per cubic meter from curve (Fig. 184) :	700°	900°	800°	1000°
Air or gas at 1200° .-	1260°	1620°	1440°	1800°
Waste gases at 800°	445	646	711	
Waste gases at 600°				518
Gas at	166			
Air at		148		
Calories absorbed by gas and air or given up by waste gases	279	492	921	1114
Assuming 2 m^3 00 (70.6 cu ft) of	558			
492X2=		984		
Total: Required 558+ 984 =	15	42	2	35
Available 921 + 1114 =			0	
Percentage required for				
Percentage required for air:		63.81		